



Program Planning Guide

Laser & Photonics Technology, Associate in Applied Science Degree (A40280)

Program Length: 5 Semesters

Program Sites: Harnett Main Campus , Day Program

Career Pathway Options: Associate in Applied Science Degree in Laser & Photonics Technology

Suggested Course Schedule		Class	Lab	Work	Credits	Notes:
1st Semester (fall)						
ACA 122	College Transfer Success	0	2	0	1	
CIS 110	Intro to Computers	2	2	0	3	
EGR 131	Intro to Electronics Tech	1	2	0	2	
ELC 131	Circuit Analysis I	3	3	0	4	
ENG 111	Writing & Inquiry	3	0	0	3	
Math requirement, take one:						
MAT 171	Precalculus Algebra	3	2	0	4	
MAT 121	Algebra/Trigonometry I	2	2	0	3	
	Total Semester Hours:	11/12	11	0	16/17	
2nd Semester (spring)						
ELC 127	Software for Technicians	1	3	0	2	
ELN 131	Analog Electronics I	3	3	0	4	
ELN 133	Digital Electronics	3	3	0	4	
LEO 111	Lasers and Applications	1	3	0	2	
Math 2 requirement, take one:						
MAT 172	Precalculus Trigonometry	3	2	0	4	
MAT 122	Algebra/Trigonometry II	2	2	0	3	
	Total Semester Hours:	10/11	14	0	15/16	
3rd Semester (summer)						
ELN 132	Analog Electronics II	3	3	0	4	
Physics requirement, take one:						



PHY 151	College Physics I	3	2	0	4	
PHY 131	Physics - Mechanics	3	2	0	4	
	Total Semester Hours:	6	5	0	8	
4th Semester (fall)						
ELN 275	Troubleshooting	1	3	0	2	
LEO 211	Photonics Technology	5	6	0	7	
LEO 212	Photonics Applications	3	3	0	4	
Communications requirement		3	0	0	3	<i>Recommend ENG 112</i>
Humanities/Fine Arts requirements		3	0	0	3	
	Total Semester Hours	15	12	0	19	
5th Semester (spring)						
ELN 232	Intro to Microprocessors	3	3	0	4	
ISC 221	Statistical Quality Control	3	0	0	3	
LEO 213	Advanced Photonics Applications	3	3	0	4	
Social/Behavioral Science requirement		3	0	0	3	
Technical Elective, take 2 credits from:					2	
LEO 222	Photonics Applications Project	1	3	0	2	
WBL 111	Work-based Learning I	0	10	0	1	
WBL 121	Work-based Learning II	0	10	0	1	
WBL 122	Work-based Learning II	0	20	0	2	
	Total Semester Hours	12/13		0	16	
Total Semester Credit Hours Required for Graduation: 74						